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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/691,405	10/17/2000	Steven R. Binder	2558B-063700US	3942	
20350	7590 01/20/2006	01/20/2006		EXAMINER	
TOWNSEND AND TOWNSEND AND CREW, LLP			ALLEN, MARIANNE P		
TWO EMBARCADERO CENTER EIGHTH FLOOR		ART UNIT	PAPER NUMBER		
SAN FRANCISCO, CA 94111-3834			1647		
			DATE MAILED: 01/20/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/691,405	BINDER ET AL.				
		Examiner	Art Unit				
		Marianne P. Allen	1647				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH WHIC - Exter after - If NO - Failu Any (	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING I nations of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tim d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
2a)⊠	Responsive to communication(s) filed on <u>18</u> This action is <b>FINAL</b> . 2b) The Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pro					
Dispositi	ion of Claims						
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1.2.5-10 and 12-20 is/are pending in 4a) Of the above claim(s) is/are withdred Claim(s) is/are allowed.  Claim(s) 1-2, 5-10, 12-20 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and it ion Papers  The specification is objected to by the Examination and items are subjected to by the Examination are subjected as a subject and items are subjected as a subject as	rawn from consideration.  /or election requirement.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notice 3) Inform	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 sr No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 8)  5)  Notice of Informal F 6)  Other:					

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Applicant's arguments filed 10/18/2005 have been fully considered but they are not persuasive.

Claims 1-2, 5-10, and 12-20 are under consideration.

Claim Rejections - 35 USC § 112

Claims 1-2, 5-10, and 12-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. This is an enablement rejection.

This rejection is maintained for reasons of record.

Applicant argues that the present invention neither involves nor claims either the association of particular antigens or antibodies related to particular diseases. This is not agreed with. In order for the claimed method to be operable and achieve the object of the method (identifying whether a test subject is suffering from one or more systemic autoimmune diseases) these associations of particular antigens or antibodies related to particular diseases must be embraced by the claims even if it is only in the context of a statistically derived decision from knearest neighbor algorithms. This is still an association that the specification does not provide and would constitute undue experimentation to practice.

Applicant argues that the present invention is concerned with correlating using a KNN process, between a test data set and a plurality of reference data sets and providing a statistically derived decision as to whether the test data set is associated with one or more of the diseases.

The specification nor any prior art of record exemplify no such correlation or statistically derived decision as to whether any test data set embraced by the claims can be associated with one or more of the diseases recited in the claims.

Applicant argues that the invention is not directed to making a determination of or discovering unknown antibodies. This is not agreed with. Claim 1 does not identify the autoantibodies to be tested or detected. Claims 7 and 8 list some autoantibodies; however, claim 5, for example, specifically embraces 100 autoantibodies. This is more than the number of particular antibodies disclosed by the specification. Thus, more autoantibodies would be required to be discovered, chosen, or selected for inclusion in the method.

As set forth in the prior Office action, the specification provides no direction or guidance on how to adapt known statistical pattern recognition means to solve their particular problem.

There are no working examples. Computational methods of diagnosis are quite complicated such that even though the skill of those in the art is high, such inventions are difficult to develop and validate.

Applicant has not addressed the difficulties in diagnosing autoimmune disorders based upon transient symptoms, overlapping symptoms, variations in normal antibody levels, and so forth as set forth in the prior Office action and how the disclosure provides guidance to one of ordinary skill in the art on these issues in developing the claimed computer-implemented method.

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## Conclusion

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marianne P. Allen whose telephone number is 571-272-0712. The examiner can normally be reached on Monday-Thursday, 5:30 am - 1:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on 571-272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marianne P. Allen
Primary Examiner

1/19/06

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